

# Global Silicon Carbide (SiC) Burn-In Test Machine Market Growth 2025-2031

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## Abstracts

The global Silicon Carbide (SiC) Burn-In Test Machine market size is predicted to grow from US\$ 360 million in 2025 to US\$ 541 million in 2031; it is expected to grow at a CAGR of 7.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A Silicon Carbide (SiC) Burn-In Test Machine is a specialized thermal-electrical chamber designed to stress SiC power semiconductor devices (e.g., MOSFETs, diodes) under elevated temperature, voltage, and current for extended durations. By cycling through defined temperature profiles (often up to 200 °C) while applying operational or accelerated electrical stress, it identifies early-life failures, latent defects, and reliability-limiting mechanisms before field deployment. Key features include precise temperature control, programmable voltage/current sources, real-time monitoring of device parameters (leakage, threshold shifts), and automated data logging. Such machines are essential in qualifying SiC components for high-reliability applications like electric vehicles, renewable inverters, and aerospace power systems.

United States market for Silicon Carbide (SiC) Burn-In Test Machine is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Silicon Carbide (SiC) Burn-In Test Machine is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Silicon Carbide (SiC) Burn-In Test Machine is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Silicon Carbide (SiC) Burn-In Test Machine players cover AeHR Test Systems, Cohu, Pentamaster, KES Systems, Despatch Industries, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Carbide (SiC) Burn-In Test Machine Industry Forecast" looks at past sales and reviews total world Silicon Carbide (SiC) Burn-In Test Machine sales in 2024, providing a comprehensive analysis by region and market sector of projected Silicon Carbide (SiC) Burn-In Test Machine sales for 2025 through 2031. With Silicon Carbide (SiC) Burn-In Test Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Carbide (SiC) Burn-In Test Machine industry.

This Insight Report provides a comprehensive analysis of the global Silicon Carbide (SiC) Burn-In Test Machine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Silicon Carbide (SiC) Burn-In Test Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Carbide (SiC) Burn-In Test Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide (SiC) Burn-In Test Machine and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Silicon Carbide (SiC) Burn-In Test Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide (SiC) Burn-In Test Machine market by product type, application, key manufacturers and key regions and countries.

### Segmentation by Type:

Fully Automatic Machine

Semi-Automatic Machine

### Segmentation by Application:

Power Semiconductor Devices

Electric Vehicles and Charging Piles

Renewable Energy Systems

Industrial Inverters and Servo Drives

High-Frequency RF Devices

LED Lighting Substrates

Others

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Aehr Test Systems

Cohu

Pentamaster

KES Systems

Despatch Industries

EDA Industries

Micro Control Company

Gruenberg

Stericox

ESPEC

Thermotron

Capovani

Weiss Technik

Semights Co., Ltd

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide (SiC) Burn-In Test Machine market?

What factors are driving Silicon Carbide (SiC) Burn-In Test Machine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon Carbide (SiC) Burn-In Test Machine market opportunities vary by end market size?

How does Silicon Carbide (SiC) Burn-In Test Machine break out by Type, by Application?

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